

7/18/05

Attorney Docket No. 82605X
Serial No. 10/729,145

AMENDMENTS TO THE SPECIFICATION

Please amend the Specification as indicated in the replacement paragraphs below.

Please do not "enter" (see attachment).
on page 23, line 16
ce 3/6/08

Please amend ~~paragraph 0080~~ of the Specification, as follows:

(q) to provide a portable multifunction apparatus which can be used as thermal shelter, incubator, hydroponichydroponic growing chamber, greenhouse, frost shield, and/or general shelter from inclement weather or other environments elements (e.g., mosquitoes, other biting insects, dust, debris, sunlight, etc.);

Please "enter".
ce 3/6/08

on page 29, line 30
Please amend the section heading ~~between paragraphs 0237 and 0238~~ of the Specification, as follows:

BRIEF ~~BRIEF~~ DESCRIPTION OF FIGURES

Please do not "enter".
Because base on specification filed on 12/4/03.
ce 3/6/08

Please amend paragraph 0238 of the Specification, as follows:
FIG. 19D depicts two electrically interconnected modular multi-function apparatuses ____ located on a mountain ____ and being used as high-gain antenna apparatuses (each similar to those shown above in FIGS. 19A-C) to a relay electronic communications between a low-lying transmission tower ____ and a third modular apparatus ____ located on opposite sides of the mountain. It is noted that a single modular multi-function apparatus may be reconfigured by the user to provide two or more ~~more~~ reflector modules (such as by

attaching a removable reflector chamber to, for example, the separate toroidal support ring ____ or the rings of the safety shield ____), thus enabling a single apparatus to serve as a relay station between non-aligned remote stations. However, depending on the element selected to support the auxiliary removable reflector chamber, alternate means for supporting the apparatus may need to be implemented.

*Please do not "enter".
Because base on
specification filed on
12/4/03.
ce
3/6/08*

Please amend paragraph 0244 of the Specification, as follows:
FIG. 21A depicts the modular multi-function apparatus being used in an upright position as an insulated crib, cradle, or incubator, such as to hold an infant _____. In addition to the reflective membrane ____, the invention contemplates that many of the other elements of the apparatus, such as the interior and/or [[or]] exterior walls of the safety shield _____ can have a reflective surface _____ to enhance the thermal insulating characteristics of the apparatus. FIG. 21B depicts the modular multi-function apparatus ____ being used in a horizontal position by a person ____ as a seat or chair ____, and as a shield from the sun, wind, and/or inclement weather. FIG. 21C depicts the modular multi-function apparatus ____ being used in an inverted position as a shelter to protect a person from inclement weather or other environmental elements. By further incorporating an optional camouflaged external surface ____ the apparatus effectively serves

as a wildlife blind or hunting blind. FIG. 21D depicts the modular multi-function apparatus _____ in a partially disassembled and reconfigured condition, wherein the toroidal base ring _____ is being used as an open flotation device to support a person _____ on water _____, and the remainder of the apparatus is being used as an enclosed flotation device _____ or weather-resistant gear closet. The apparatus can also be used a portable cage, terrarium, aquarium, greenhouse, frost shield, and the like. These applications can be facilitated by the inclusion of an integral or removably attached cover, such as a transparent cover (not shown) to enable use as a greenhouse, or a fine mesh cover (not shown) to enable use as cage for small animals or insects. Note that such a fine mesh cover can also be used at an insect shield (e.g., mosquito net) when using the device as a shelter, incubator, and the like.

7/18/65

incorporating a high-emissivity surface, such as a matte black surface, which can be used to collect water at night by radiative condensation processes;

5 (n) to provide a portable multifunction apparatus, which can be used as a fermentor, which in conjunction with the distillation function noted above, allows the apparatus to produce high grade spirits for fuel, medicinal, and other purposes;

10 (o) to provide a portable multifunction apparatus for the directional amplification of sound;

(p) to provide a portable multifunction apparatus optionally incorporating one or more pressure-deformable, planar, reflective membranes to allow the device to have a variable focal length;

15 ((q)) to provide a portable multifunction apparatus, which can be used as a thermal shelter, incubator, hydroponic growing chamber, greenhouse, frost shield, and/or general shelter from inclement weather or other environmental elements (e.g., mosquitoes, other biting insects, dust, debris, sunlight, etc.);

20 (r) to provide a portable multifunction apparatus, which can be used as a dehydrator, dryer, curing chamber, and/or sealed or vented work chamber;

25 (s) to provide a portable multifunction apparatus, which can be used as an optionally camouflaged wildlife viewing/hunting blind, animal cage, terrarium, aquarium, and/or aquatic growth chamber;

(t) to provide a portable multifunction apparatus, which can be used as a wind turbine to produce electrical and/or mechanical power; and/or

30 (u) to provide a portable multifunction apparatus optionally incorporating one or more one-way valves to facilitate or enable use of the apparatus as a fluid pump.

35 A second main object of the invention is to provide a multifunction apparatus which optionally is extremely lightweight, fully collapsible, and compactly foldable so as to greatly facilitate portage and storage, thereby providing a high performance apparatus which is ideally suited to camping,

7/18/05

An eighth main object of the invention is to provide a portable multifunctional apparatus that is highly environmentally friendly by virtue of the fact that the apparatus generally requires no fuel to operate. Instead, the instant invention typically relies solely on radiating solar energy when used for heating, cooking, and the like, thereby minimizing air, water, and ground pollution. This is in stark contrast to other common portable cooking and heating equipment, which generally rely on the combustion of hydrocarbon fuels and, thus, inherently cause pollution through both combustion processes and unintentional fuel releases (e.g., spills, leaks, vapor releases, and the like).

It is a further object of the invention to provide improved elements and arrangements thereof for the purposes described which is inexpensive, dependable, and fully effective in accomplishing its intended purposes.

These and other objects of the present invention will become readily apparent upon further review of the following specification and drawing. However, it is once again emphasized that any particular embodiment or manifestation of the present invention need not perform all such functions or otherwise meet all such objects of the present invention as noted herein, thus prompting the use of the term "optional" and/or "optionally" when referring to the various objects of the invention in several of the preceding paragraphs. Specifically, any particular embodiment of the present invention can be configured to perform and/or meet only a limited number (or subset) of these functions and/or objects without departing from the basic nature of the invention.

BREIF DESCRIPTION OF FIGURES

FIGS. 1A-C are, respectively, a schematic perspective view, a schematic side elevation cross-sectional view, and an exploded cross-sectional view of a typical modular, inflatable, multi-

7/18/05

fully deployed safety cage.

FIG. 19B depicts an alternate modular multi-function apparatus having a removably attached alternate inflatable safety cage, wherein a plurality of linear (but optionally curved) inflatable tubes are integrally connected to both an upper and a lower inflatable toroidal ring to form a removable lightweight tubular structure, and wherein several of the openings within the lightweight tubular structure are covered with a flexible mesh or net, both to provide a physical barrier around the focal point, and to enhance the structural stability of the removable safety cage.

FIG. 19C depicts an alternate modular multi-function apparatus having a removably attached alternate inflatable safety cage, wherein a plurality of linear inflatable tubes connected to an upper and a lower inflatable ring form a lightweight truss structure, and wherein several of the openings within the lightweight truss structure are covered with a flexible mesh or net, both to provide a physical barrier around the focal point, and to enhance the structural stability of the removable safety cage.

FIG. 19D depicts an alternate modular multi-function apparatus having a removably attached alternate inflatable safety cage comprising a plurality of linear inflatable tubes integrally connected to both an upper and a lower inflatable toroidal ring to form a removable lightweight tubular structure, wherein several of the openings within the side of the tubular structure are covered with a light-attenuating flexible transparent membrane, and the upper opening of the tubular structure is covered with a membranous grid or grating to provide off-axis light attenuation.

Tapered Support and Leveling Rings:

The basic inflatable reflector apparatus can be supported by a plurality of inflatable tapered support and leveling rings, wherein the thinnest portions of the stacked tapered rings are located at one circumferential position, whereby the apparatus can be progressively inclined to a nearly vertical orientation

collapsible rigid safety cage and spherical support comprising a plurality (e.g., twelve) of semicircular rigid elements, which are rotatably attached (e.g., pinned) to each other via pin joints located above and below the basic reflector apparatus along the focal axis of the device, and which are further attached to the inflatable toroidal support ring of the basic reflector apparatus both to support the reflector apparatus and to stabilize the collapsible structure.

Figures 21A-D Alternate "Globe-Type" Collapsible Rigid Element Combination Safety Cage and Device Supports:

FIGS. 21A and **21B** depict an alternate configuration of the modular multi-function apparatus comprising a sub-ambient pressurized removable reflector chamber (third species) removably attached via hooks, clips, or the like, to the equatorial rim and the bottom pole of an optionally collapsible, globe-shaped, truss-like, support structure couched within an inflatable toroidal support ring.

FIG. 21C depicts an alternate configuration of the modular multi-function apparatus comprising a sub-ambient pressurized removable reflector chamber (first species) having its upper side removably attached via hooks, clips, or the like, to the equatorial rim and its lower side similarly removably attached to a lower parallel rim of an optionally collapsible, globe-shaped, truss-like, support structure couched within an inflatable toroidal support ring.

FIG. 21D depicts an alternate configuration of the modular multi-function apparatus comprising a super-ambient-pressurized, removable reflector chamber (second species) removably attached via hooks, clips, or the like, to the equatorial rim of the globe-shaped, truss-like, support structure couched alternatively in a ground depression, such as may be dug in sand.

Figures 22A-G Alternate Cable-Stayed Focal Point Supports: